



#6/a

SEQUENCE LISTING

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Shen, Alexander J.

<120> ANTIMICROBIAL PEPTIDES AND DERIVED METAPEPTIDES

<130> 660081.415C1

<140> 09/648,816

<141> 2000-08-25

<150> US 09/622,561

<151> 2000-08-18

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<151> 1999-02-17

<150> US 09/025,319

<151> 1998-02-18

<160> 95

<170> PatentIn Ver. 2.1

<210> 1

<211> 74

<212> PRT

<213> Oryctolagus cuniculus

<400> 1

Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val  
1 5 10 15

Lys Thr Thr Ser Leu Val Arg Pro Arg His Ile Thr Asn Leu Glu Leu  
20 25 30

Ile Lys Ala Gly Gly His Cys Pro Thr Ala Asn Leu Ile Ala Thr Lys  
35 40 45

Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu Thr Lys  
50 55 60

Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser  
65 70

<210> 2

<211> 74  
<212> PRT  
<213> Oryctolagus cuniculus

Sub  
B17

<400> 2  
Ser Asp Asp Pro Lys Glu Ser Glu Gly Asp Leu His Cys Val Cys Val  
1 5 10 15  
Lys Thr Thr Ser Leu Val Arg Pro Gly His Ile Thr Asn Leu Glu Leu  
20 25 30  
Ile Lys Ala Gly Gly His Cys Pro Thr Ala Asn Leu Ile Ala Thr Lys  
35 40 45  
Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu Tyr Lys  
50 55 60  
Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser  
65 70

<210> 3  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 3  
Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly

<210> 4  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 4

Ala Arg Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser  
1 5 10

<210> 5

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 5

Lys Leu Tyr Arg Lys Phe Lys Asn Lys Leu Leu Lys Leu Lys  
1 5 10

<210> 6

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 6

Ala Arg Tyr Arg Lys Phe Lys Asn Lys Ile Leu Lys Ser  
1 5 10

<210> 7

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 7

Ala Arg Tyr Arg Lys Phe Arg Asn Lys Ile Leu Arg Ser  
1 5 10

<210> 8

<211> 14

Sub  
B7

<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 8

Lys Leu Tyr Lys Lys Trp Lys Lys Lys Leu Leu Lys Leu Lys  
1 5 10

<210> 9

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 9

Ala Leu Tyr Lys Lys Trp Lys Asn Lys Leu Leu Lys Ser  
1 5 10

<210> 10

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 10

Lys Leu Tyr Lys Lys Trp Lys Asn Lys Leu Lys Arg Ser Leu Lys Arg  
1 5 10 15

Leu Gly

<210> 11

<211> 13

<212> PRT

<213> Artificial Sequence

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fragment or analogue of PMP-1 or PMP-2

<400> 11

Ala Leu Tyr Lys Lys Leu Phe Lys Lys Leu Leu Lys Arg  
1 5 10

<210> 12

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 12

Gly Leu Tyr Lys Arg Leu Phe Lys Lys Leu Leu Lys Ser  
1 5 10

<210> 13

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 13

Ala Leu Tyr Lys Arg Leu Phe Lys Lys Leu Lys Lys Phe  
1 5 10

<210> 14

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 14

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala

1

5

10

15

Leu

&lt;210&gt; 15

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 15

Arg Phe Glu Lys Ser Lys Ile Lys

1

5

&lt;210&gt; 16

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 16

Ser Ala Ile His Pro Ser Ser Ile Leu Lys Leu Glu Val Ile Cys Ile

1

5

10

15

Gly Val Leu Gln

20

&lt;210&gt; 17

&lt;211&gt; 14

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 17

Tyr Ala Glu Leu Arg Cys Thr Cys Ser Ile Lys Ala Glu Val

1

5

10

<210> 18

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 18

Lys Phe Lys His Tyr Phe Phe Trp Lys Tyr Lys

1

5

10

<210> 19

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 19

Lys Gly Tyr Phe Tyr Phe Leu Phe Lys Phe Lys

1

5

10

<210> 20

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 20

Lys Trp Lys Trp Trp Trp Trp Trp Lys Trp Lys

1

5

10

<210> 21

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 21

Pro Arg Ile Lys Lys Ile Val Gln Lys Lys Leu Ala Gly  
1 5 10

<210> 22

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 22

Lys Trp Val Arg Glu Tyr Ile Asn Ser Leu Glu Met Ser Lys Lys Gly  
1 5 10 15

Leu Ala Gly

<210> 23

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 23

Glu Trp Val Gln Lys Tyr Val Ser Asp Leu Glu Leu Ser Ala Trp Lys  
1 5 10 15

Lys Ile Leu Lys  
20

<210> 24

<211> 12

<212> PRT



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 24

Ser Trp Val Gln Glu Tyr Val Tyr Asp Leu Glu Leu  
1 5 10

<210> 25

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 25

Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val Arg  
1 5 10 15

<210> 26

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 26

Ala Asp Ser Gly Glu Gly Asp Phe Leu Ala Glu Gly Gly Gly Val Arg  
1 5 10 15

Lys Leu Ile Lys  
20

<210> 27

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 27

Glu Gly Val Asn Asp Asn Glu Glu Gly Phe Phe Ser Ala  
1 5 10

<210> 28

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 28

Lys Phe Asp Lys Ser Lys Leu Lys Lys Thr Glu Thr Gln Glu Lys Asn  
1 5 10 15

Pro Leu

<210> 29

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 29

Ala Asn Leu Ile Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu  
1 5 10 15

<210> 30

<211> 30

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 30  
Ile Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala  
1 5 10 15

Ala Leu Tyr Lys Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser  
20 25 30

<210> 31  
<211> 47  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 31  
Thr Asn Leu Glu Leu Ile Lys Ala Gly Gly His Cys Pro Thr Ala Asn  
1 5 10 15

Leu Ile Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln  
20 25 30

Ala Ala Leu Tyr Lys Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser  
35 40 45

<210> 32  
<211> 32  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 32  
Asn Leu Ile Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu  
1 5 10 15

Gln Ala Ala Leu Tyr Lys Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser  
20 25 30

<210> 33  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 33  
Gln Ala Ala Leu Tyr Lys Lys Lys Ile Ile Lys Lys Leu Leu Glu Ser  
1 5 10 15

<210> 34  
<211> 25  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 34  
Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly Ala Leu Tyr Lys Lys Lys Leu  
20 25

<210> 35  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 35  
Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln  
20 25 30

Ala Ala Leu

35

<210> 36  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 36  
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr

<210> 37  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 37  
Cys Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys  
1 5 10 15

Arg Leu Gly

<210> 38  
<211> 18  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 38  
Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Cys Leu Lys Arg

1

5

10

15

Leu Gly

&lt;210&gt; 39

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 39

Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly Cys

&lt;210&gt; 40

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 40

Cys Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys  
1 5 10 15Arg Leu Gly Cys  
20

&lt;210&gt; 41

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 41

Ala Arg Tyr Lys Lys Phe Lys Lys Lys Leu Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly

<210> 42

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 42

Ala Leu Tyr Lys Lys Phe Lys Lys Lys Phe Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly

<210> 43

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 43

Ala Arg Tyr Lys Lys Phe Lys Lys Lys Phe Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly

<210> 44

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 44

Gly Leu Arg Lys Leu Ser Lys Leu Leu Lys Lys Lys Phe Lys Lys Tyr  
1 5 10 15

Leu Ala

<210> 45

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 45

Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn Lys Lys Thr  
1 5 10 15

Ala

<210> 46

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 46

Ala Leu Tyr Lys Lys Phe Lys Lys Lys Leu Cys Leu Asp Leu Gln Ala  
1 5 10 15

Ala Leu

<210> 47

<211> 18



<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 47

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Ser Leu Lys Arg  
1 5 10 15

Leu Gly

<210> 48

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 48

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys Lys  
20

<210> 49

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 49

Ala Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Arg Arg Arg  
20

<210> 50  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 50  
Ala Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15  
Leu Tyr Arg Arg Arg  
20

<210> 51  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 51  
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala  
1 5 10 15  
Leu Tyr Lys Lys Lys  
20

<210> 52  
<211> 21  
<212> PRT  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 52  
Ala Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Glu Glu Glu  
20

<210> 53  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 53  
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys Lys  
20

<210> 54  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 54  
Ala Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys Lys  
20

<210> 55  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 55

Ala Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys Lys  
20

<210> 56

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 56

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys Lys  
20

<210> 57

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 57

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Phe Lys Lys Lys  
20

<210> 58

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic

fragment or analogue of PMP-1 or PMP-2

<400> 58

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Trp Lys Lys Lys  
20

<210> 59

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 59

Lys Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly  
1 5 10 15

Asn Lys Lys Thr Ala  
20

<210> 60

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 60

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 61

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 61

Ala Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Arg Arg  
20

<210> 62

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 62

Ala Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 63

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 63

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 64

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 64

Ala Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Glu Glu  
20

<210> 65

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 65

Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 66

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 66

Ala Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 67  
<211> 20  
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<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 67  
Ala Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 68  
<211> 20  
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<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 68  
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala  
1 5 10 15

Leu Tyr Lys Lys  
20

<210> 69  
<211> 20  
<212> PRT  
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<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 69  
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15



Leu Phe Lys Lys  
20

<210> 70  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 70  
Ala Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala  
1 5 10 15

Leu Trp Lys Lys  
20

<210> 71  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 71  
Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn  
1 5 10 15

Lys Lys Thr Ala  
20

<210> 72  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 72

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 73

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 73

Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Arg Arg Arg  
20

<210> 74

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 74

Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 75

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 75

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 76

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 76

Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Glu Glu Glu  
20

<210> 77

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 77

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 78

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 78

Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 79

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 79

Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 80

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 80

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys Lys  
20

<210> 81  
<211> 20  
<212> PRT  
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 81

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Phe Lys Lys Lys  
20

<210> 82

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 82

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Trp Lys Lys Lys  
20

<210> 83

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 83

Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn  
1 5 10 15

Lys Lys Thr Ala

<210> 84  
 <211> 19  
 <212> PRT  
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 fragment or analogue of PMP-1 or PMP-2

<400> 84

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
 1 5 10 15

Tyr Lys Lys

<210> 85

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 fragment or analogue of PMP-1 or PMP-2

<400> 85

Thr Arg Arg Asn Gly Arg Arg Leu Cys Leu Asp Leu Gln Ala Ala Leu  
 1 5 10 15

Tyr Arg Arg

<210> 86

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 fragment or analogue of PMP-1 or PMP-2

<400> 86

Thr Lys Lys Asn Gly Lys Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu

Sub  
 Bn

1

5

10

15

Tyr Lys Lys

&lt;210&gt; 87

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 87

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Glu Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys

&lt;210&gt; 88

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

&lt;400&gt; 88

Thr Glu Glu Asn Gly Arg Glu Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Glu Glu

&lt;210&gt; 89

&lt;211&gt; 19

&lt;212&gt; PRT

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 89

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Lys Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys

<210> 90

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 90

Thr Lys Lys Asn Gly Glu Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys

<210> 91

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 91

Thr Lys Lys Asn Gly Gly Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys

<210> 92

<211> 19

<212> PRT

<213> Artificial Sequence



<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 92

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Gly Leu Gln Ala Ala Leu  
1 5 10 15

Tyr Lys Lys

<210> 93

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 93

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Phe Lys Lys

<210> 94

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 94

Thr Lys Lys Asn Gly Arg Lys Leu Cys Leu Asp Leu Gln Ala Ala Leu  
1 5 10 15

Trp Lys Lys

<210> 95

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
fragment or analogue of PMP-1 or PMP-2

<400> 95

Lys Lys Tyr Leu Ala Ala Gln Leu Asp Leu Cys Leu Lys Arg Gly Asn  
1 5 10 15

Lys Lys Thr